September Meetings

Dates & Times
Matinee 2:30 p.m., Wednesday, September 8, 1982

Evenings, 8:00 p.m. Wednesday and Thursday, September 8 and 9, 1982

Place
May Treat Morrison Auditorium

Speaker
Albert P. Bekker

Subject
International Exhibition of Nature Slides

Every year members of the Photographic Society of America send slides from all over the world to the annual Exhibition of Nature Slides sponsored by the Photochrome Club of San Francisco. The nature photography can depict all observations of facts and phenomena from all branches of natural history. From approximately 1,500 entries, 18 medals are awarded, (including the California Academy of Sciences' Gold Medal for the "Best Zoological" slide) and the top-scoring and prize winning images are assembled together in a stunning multi-image presentation with commentary and music.

Albert P. Bekker, who co-produced this presentation with his wife Marie, is a lecturer and naturalist and current chairman of the local chapter of the Photographic Society of America.

As usual, your membership card will admit you to the Academy's main entrance at Cowell Hall, and through the Wattis Hall entrance for the matinee presentation. Please be prepared to show your card at the auditorium door for the afternoon meeting.

SNEAK PREVIEW:

The October Members' Meeting will take place on Wednesday, October 13 at the Annual Members' Open House! It's your chance to go behind the scenes of your favorite departments. Mark your calendars and look for details in your October Newsletter.

Special Exhibits

Two new exhibits open in September!

Blue Water Plankton is an exhibit of photographs by Jonathan Trent, graduate student at Scripps Institution of Oceanography, which captures the strange beauty and eerie quality of strange organisms and fragile transparent animals in the clear blue water of the open ocean. September 17 through January 16, 1983 in Cowell Hall.

The Eye of Science, opening September 24 and continuing through January 30, 1983 in the Atholl McBean and Patricia Price Peterson Galleries, is an exhibit of color and black and white photographs which illustrates how new technologies have extended the human eye's ability to see. Collected from the work of distinguished scientists, NASA and other resources, the exhibit brings together images of the once unseeable that have played a role in recent important scientific advances. Produced and designed by the Science Museum of Minnesota.

Green jade pitcher from 15th century Persia

The splendors of Islam are on view in the exhibition of art, science and architecture entitled, **The Heritage of Islam.** Examples of rare textiles, fragile glass from the 7th century, elegantly inscribed Qu'rans, and illuminated manuscripts from around the world show the diversity of Muslim art from the Middle East to Indonesia. A recorded tour of the exhibition is available at the entrance for a $1.00 charge, or docent tours are available Monday through Saturday at 11:00 a.m., 2 and 3 p.m. Special lectures and films on Islam are listed in the Education and Travel section of this Newsletter.

The Heritage of Islam has been extended through January 2, 1983. A sign language tour of The Heritage of Islam will be given at 10 a.m. on Saturday, September 25. Meet at the entrance to the exhibition.

Other exhibits include **Peoples of East Africa,** watercolor portraits by Hayward artist Clarice Roberts (through September 9); **Dunescapes,** color photographs of inland sand dunes by Oakland photographer Pamela Roberson (extended through October 10); **Elephants Have the Right-of-Way,** African photos by Bill Sciallo (through September 19); and **Ansel Adams: The 80th Birthday Retrospective** and **The Unknown Ansel Adams** (through Labor Day).

Remember - Summer hours of 10 to 7:30 are in effect at the Academy through Labor Day. Beginning Tuesday, September 7 we will return to our normal museum hours of 10 to 5. Enjoy the Academy during the early evening hours!

Morrison Planetarium

The planetarium's popular sky show, **Perplexities** ends September 12. **Showtimes through September 6** are daily at 12:30, 2:00 and 3:30 p.m.; additional shows Wednesday through Friday at 11:00 a.m. and Wednesday and Thursday at 7:30 p.m. **Showtimes for September 7 through 12** are everyday at 2:00 p.m., Saturday and Sunday at 12:30, 2:00 and 3:30 p.m. and Wednesday and Thursday at 7:30 p.m. *The planetarium will be closed September 13 through 16.*

The Morrison Planetarium's new sky show **Are We Alone?** will open September 17 and continue through November 28. In our continuing quest for knowledge about the universe we live in, one question has remained elusively unanswered, despite our best efforts: Are we alone in the universe? Join us this fall in the search for extraterrestrial life! Showtimes everyday at 2:00 p.m., Saturday and Sunday at 12:30, 2:00 and 3:30 p.m. and Wednesday and Thursday evenings at 7:30.

Please use your planetarium passes for free admission to both of these shows.

Light Shows

Showtimes for Eye See the Light Show, Inc's three light shows through September 8 are:
Rock Stars - Thursday at 10:30 p.m., Friday and Saturday at 9:00 and 10:30 p.m., and Sunday at 9:00 p.m.

Lights Fantastic* - Wednesday through Sunday at 5:00 p.m.

Spotlight: The Beatles - Wednesday and Thursday at 9:00 p.m., Friday through Sunday at 7:30 p.m.

*Please Note - There will be an extra **Lights Fantastic** show on Labor Day, Monday, September 6 at 5:00 p.m.

The Fall and Winter schedule begins September 9 and showtimes will be:

Rock Stars - Thursday & Sunday at 9:00 p.m., and Friday and Saturday at 9:00 and 10:30 p.m.

Lights Fantastic - Saturday, Sunday and holidays at 5:00 p.m.

Spotlight: The Beatles - Friday, Saturday and Sunday at 7:30 p.m.

Admission for adults is $4.00 for evening presentations and $3.50 for matinees (5:00 p.m.). Admission to all shows for children 10 and under and for senior citizens is $2.00. Members' complimentary passes are *not* usable for free admission to the light shows.

Inside the Academy

Fall Schedule for Junior Academy

Once again the Junior Academy is offering a range of fall classes. Registration day is Saturday, September 25 from 10:00 a.m. until 3:00 p.m. in the Morrison Auditorium. Registration will continue in the Junior Academy September 27 through October 1 from 9:00 a.m. until 4 p.m. each day.

To receive a Junior Academy program of classes call 221-5100 ext. 221 for a brochure and further information.

ON THE FRONTIERS OF SCIENCE

A Lecture Series

Sponsored by the California Academy of Sciences, San Francisco State University's School of Science, and Committee for Lectures, Arts and Special Programs.

Six evening lectures (three at San Francisco State University, and three at the Academy) explore fascinating topics which are currently at the forefront of scientific research and are of fundamental importance to you.

Three lectures: "Engineering Your Future" ***Knuth Hall, San Francisco State University*** **8:00 p.m.**

SEPTEMBER 21
"Immediate Benefits of Genetic Engineering"
Dr. Crellin Pauling, *Professor of Genetics and Chair of Biological Sciences, San Francisco State University*

SEPTEMBER 28:
"Thinking Machines: Computers and Intelligence"
Dr. Terry Winograd, *Computer Science Department, Stanford University*

OCTOBER 5
"Is Nuclear War Survivable?"
Dr. Howard Maccabee, *Medical Director, Radiation Oncology Center, Walnut Creek*

Three lectures: "Evolution Revolution" ***Morrison Auditorium, California Academy of Sciences*** **8:00 p.m.**

OCTOBER 12
"Chemical Evolution and the Origin of Life"
Dr. James Lawless, *Extraterrestrial Research Division, Ames Research Center, NASA*

OCTOBER 19
"Human Evolution: How We Got Our Swollen Heads"
Dr. Glynn Isaac, *Department of Anthropology, University of California, Berkeley and Fellow, California Academy of Sciences*

OCTOBER 26
"The State of Evolutionary Theory and Why It Is Important To You
Dr. Paul Ehrlich, *Department of Biological Sciences, Stanford University and Fellow, California Academy of Sciences*

RESERVATION FORM

Tickets are available for the lecture series, ON THE FRONTIERS OF SCIENCE, with this reservation form. Reservations will be accepted in the order of receipt and unfortunately, telephone reservations cannot be accepted for this event.

For further information, call the Education/Travel Office at (415) 221-5100.

TICKET ORDER FORM

Please mail this form along with a check made payable to CREATIVE ARTS BOX OFFICE and a self-addressed, stamped envelope to:

CREATIVE ARTS BOX OFFICE
San Francisco State University
1600 Holloway Ave.
San Francisco, CA 94123

Price: $18 for series of 6 lectures
$4 for individual lectures

Please note: tickets for individual lectures will be sold *at the door* on a space available basis only.

Name _____

Address _____

City _____

Zip Code _____

Daytime Telephone # _____

Number of subscriptions to the

Series _____ at $18 each.

Total amount enclosed. _____

SPECIAL LECTURE

The Role of Women in Human Evolution:

The Scientist's View
The Novelist's View

Jean Auel

Lecturers:

Jean M. Auel, author of "The Clan of the Cave Bear" and "The Valley of Horses"

Dr. Nancy Tanner, Department of Anthropology, University of California, Santa Cruz, and author of "On Becoming Human"

Tuesday, September 14 — 7:30 p.m.
Morrison Auditorium — Free Admission

What are researchers discovering about the origins of man and how is this research being utilized? Dr. Nancy Tanner will demonstrate how scientists are tracing the evolution of apes to humans and the development of early human social life. Her ethnographic research has greatly influenced her work in terms of assumptions about early social order and the role of women in prehistoric society. For example, she sees women's work in plant gathering as occurring much earlier than hunting activities. Dr. Tanner's book, "On Becoming Human" combines her ethnographic research with current evolutionary theories and primate studies to trace man's evolution from his earliest origins.

Author Mrs. Jean M. Auel has helped to popularize scientific research about man's origins in her novels, "The Clan of the Cave Bear" and "The Valley of Horses". She will discuss the role her extensive ongoing research into prehistoric times has played in the development of her novels, and particularly of their protagonist "Ayla", a Cro-Magnon woman raised by Neanderthals. Ms. Auel has just returned from a month's exploration of anthropological sites and museums in France, Czechoslovakia, and the Ukraine. Accompanied by an American anthropologist, she is preparing for her third novel in her "Earth's Children" series.

Dr. Tanner and Mrs. Auel will be available to sign copies of their books following the presentation. Books will be sold at the entrance to Morrison Auditorium.

"The Heritage of Islam" Programs

A LECTURE SERIES

"The Heritage of Islam"
Morrison Auditorium
California Academy of Sciences

Our lecture series continues in September as we explore the historic traditions and contemporary connections that intertwine Western and Islamic civilizations.

September 15 8:00 p.m.
"The Islamic Community"
Dr. Robert Fernea, Professor of Anthropology and Middle Eastern Studies, University of Texas, Austin

September 16 8:00 p.m.
"The Paradise Gardens of Islam"
Dr. Antony Hutt, Lecturer, Islamic Art and Architecture, Coordinator, World of Islam Festival, London

September 22 8:00 p.m.
"The Place of Science In Islamic Society"
Dr. George Saliba, Assistant Professor of Arabic and Islamic Sciences, Department of Middle East Languages and Cultures, Columbia University

Tickets for lectures in the *Lecture Series* will be sold on the night of each presentation on a space-available basis only.

Individual lectures: $3 members, $4 nonmembers

An afternoon program, open to the public free of charge is

"THE POSITION OF WOMEN IN ISLAM"
A Film/Lecture Presentation
Thursday, September 16
2:00 p.m.
Morrison Auditorium

Lecturer: Dr. Elizabeth Warnock Fernea, lecturer on the Middle East and Professor of English, University of Texas, Austin

Dr. Fernea uses the medium of film to introduce the roles of women in Islamic society.

Education and Travel

Expand your horizons! Explore the world of nature as a participant in an Academy Adult Education course. Four fascinating and informative courses begin in September. Information and registration form appear in your Fall Activities Calendar. For a copy of the Calendar and additional information, please call the Education/Travel Office at (415) 221-5100, ext. 211.

A Safari In Australia
September 19 - October 10

Dr. and Mrs. Robert T. Orr will lead a trip "down under" to the fascinating continent of Australia, a country of great diversity with tropical and temperate rain forests, colorful deserts, and the Great Barrier Reef which teems with marine life. Highlights include visits to Sydney, Canberra, Melbourne, famous Ayer's Rock in the heart of the continent, Magnetic Island on the Great Barrier Reef, and Lamington National Park. A delightful one-week extension to the north island of New Zealand has also been planned. Cost for land portion is $2860 and air is currently $2083. The New Zealand extension is $563, with no additional cost for air. For information, please call the Academy Travel Office at (415) 221-5100.

Antarctica
Four departure dates: November 13, November 30, December 24, January 17

Truly a unique and exciting destination, Antarctica is a land of abundant wildlife and startling, dramatic beauty. Cruising aboard the *Lindblad Explorer,* one may expect to see huge aggregations of penguins, albatross, terns and other birds, sea lions, fur seals, elephant seals, and porpoises. There will also be opportunities to visit the research stations of Chile and Argentina and the American Palmer Station. Dr. Sylvia Earle, of the Academy, will lead the December 24th and January 17th departures. For information and a colorful brochure, please call the Academy Travel Office at (415) 221-5100.

Baja California Circumnavigated
February 5 - February 19

The *M.V. Northwest Explorer* will make its third annual cruise with Academy members around the Baja California Peninsula. Led by Ornithology curator, Dr. Luis Baptista, Academy

members will see tremendous herds of elephant seals in the San Benitos Islands, and will visit the whale lagoons of the west coast for some "close encounters" with the California gray whales. Rounding the tip of the peninsula, the ship enters the Sea of Cortez where members will see numerous birds, fishes and the bizarre plants of this region. Truly a naturalist's delight! Costs range from $2650 - $3680 plus air fare to San Diego. For information, please call the Academy Travel Office at (415) 221-5100.

Ethiopia, Egypt and The Red Sea
February 23 - March 14

The grandeur of ancient civilizations and a variety of contemporary cultures are the focus of this extraordinary tour, planned especially for Academy members. Picturesque Ethiopia is our first destination as we visit Addis Ababa, Lake Tana-source of the Blue Nile, and a village of Falashas, a distinct ethnic group who practice an archaic form of Judaism. We will also explore numerous architectural wonders before travelling to Egypt. Two days are spent in Cairo before boarding the *M.S. Lindblad Polaris* for a cruise through the Red Sea. Highlights include St. Catherine's Monastery - site of "The Burning Bush", the fabled rose-red city of Petra and the Gubal Islands. Snorkelers will enjoy the abundant marine life in the Gubal Islands and at Hurghada. Costs range from $2970 to $4540 plus air. For information, please call the Academy Travel Office at (415) 221-5100.

The Geology of the Grand Canyon
April 5 - April 9

Academy members will have the opportunity to visit seldom-seen portions of the spectacular Grand Canyon on this five-day river raft and hiking adventure. Starting at Pierce Ferry, we will enter the canyon through the dramatic gates of the Grand Wash Cliffs, moving up river to Separation Canyon by motorized raft, then floating down river by oar power. Short day hikes into pristine areas such as Columbine Falls, Indian Caves, and Gneiss Canyons are supplemented with informal lectures on the geology, archaeology, and natural history of the canyon. This trip is recommended for those who wish a more vigorous travel experience. Led by Academy geologist Jean DeMouthe Smith. Cost is $405 plus transportation. For information, call the Academy Travel Office at (415) 221-5100.

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California Academy of Sciences Newsletter September 1982